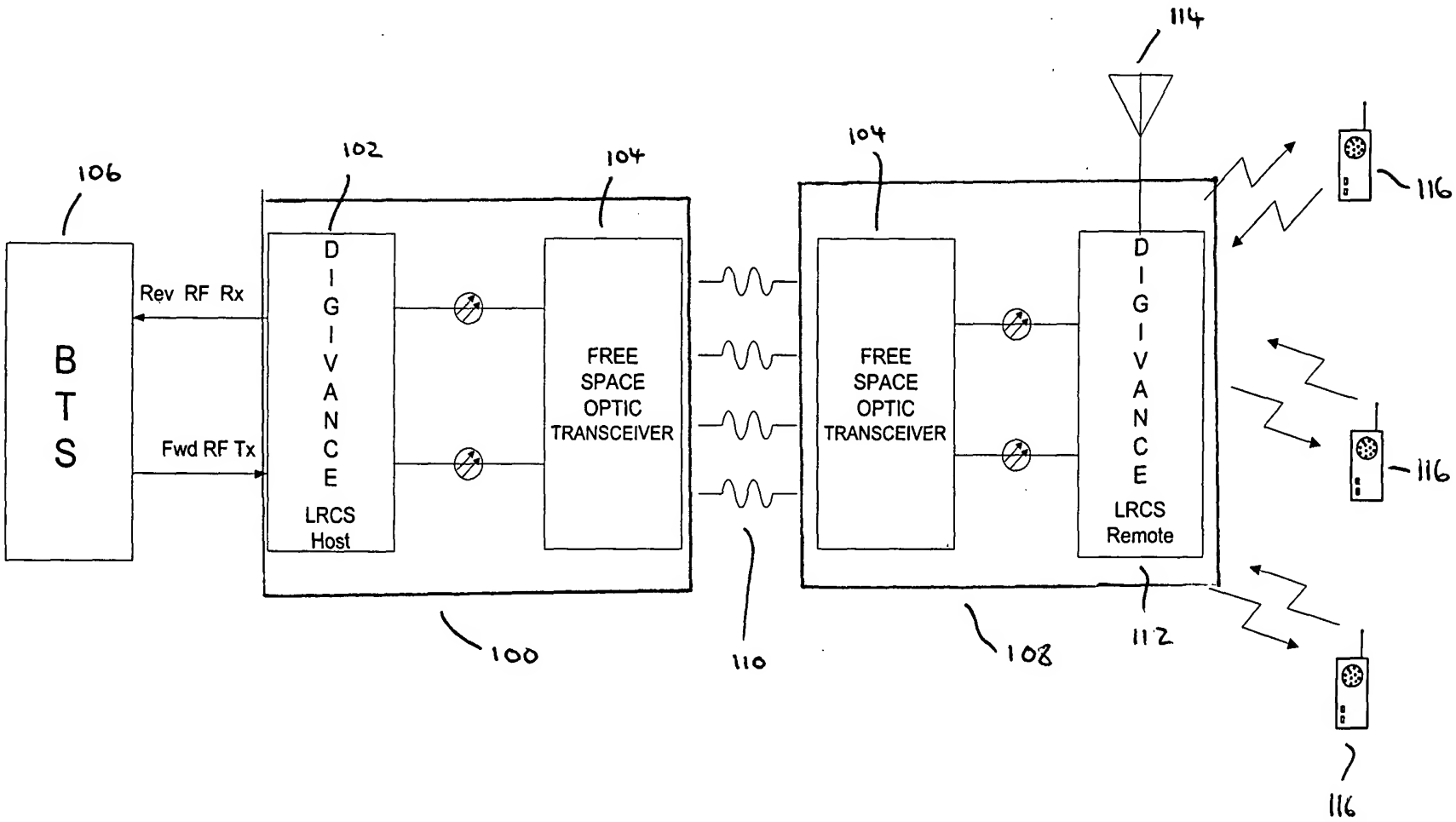
106
BTS
Rev RF Rx
Fwd RF Tx
102
DIGIVANCE
LRCS
Host
104
FREE
SPACE
OPTIC
TRANSCEIVER
100
110
104
FREE
SPACE
OPTIC
TRANSCEIVER
114
DIGIVANCE
LRCS
Remote
112
108
116
116
116

Figure 1.

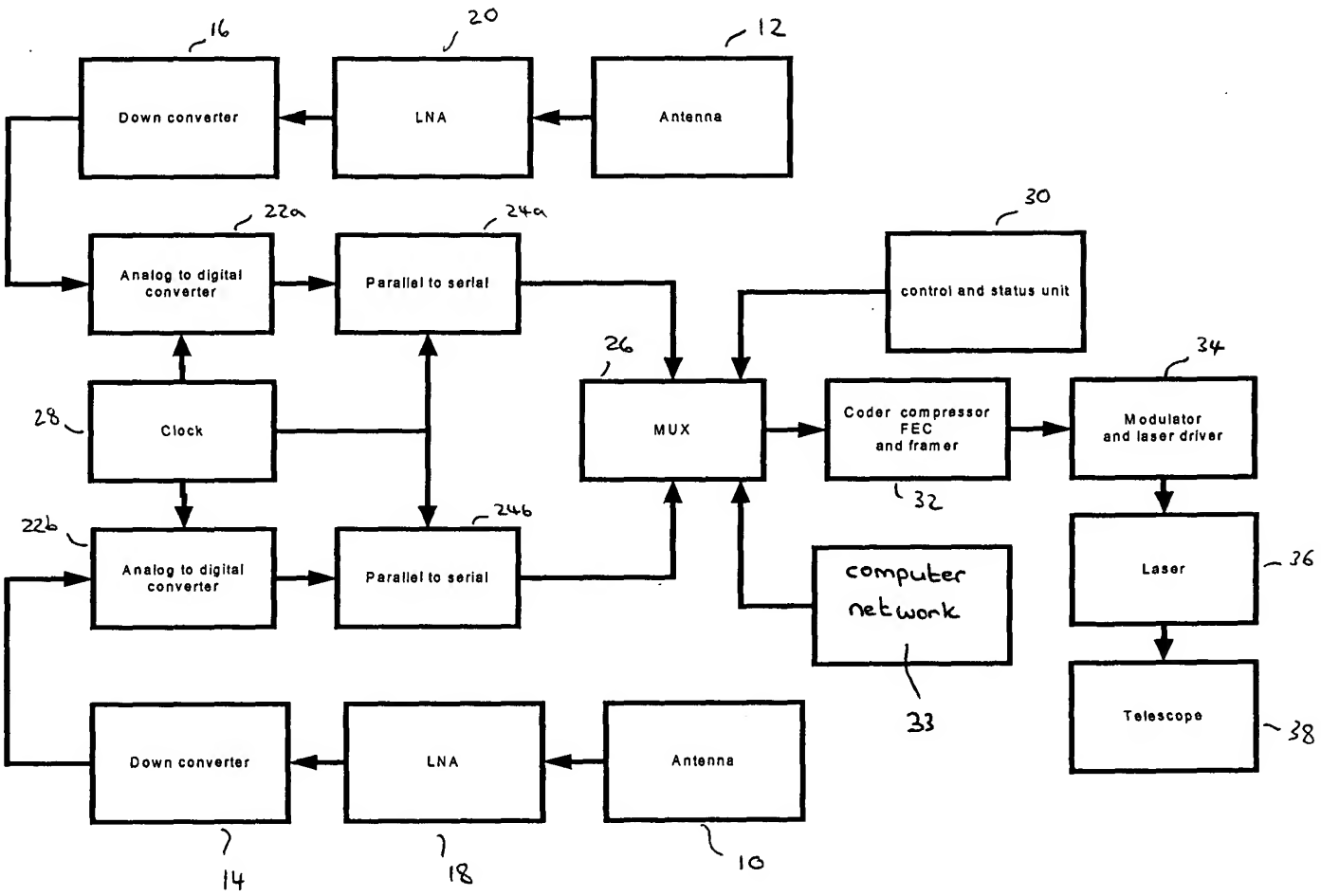
16
20
12
Down converter
LNA
Antenna
22a
24a
30
Analog to digital converter
Parallel to serial
control and status unit
26
34
28
Clock
MUX
Coder compressor FEC and framer
Modulator and laser driver
32
22b
24b
Analog to digital converter
Parallel to serial
computer network
Laser
36
33
Telescope
38
Down converter
LNA
Antenna
14
18
10

FIG. 2

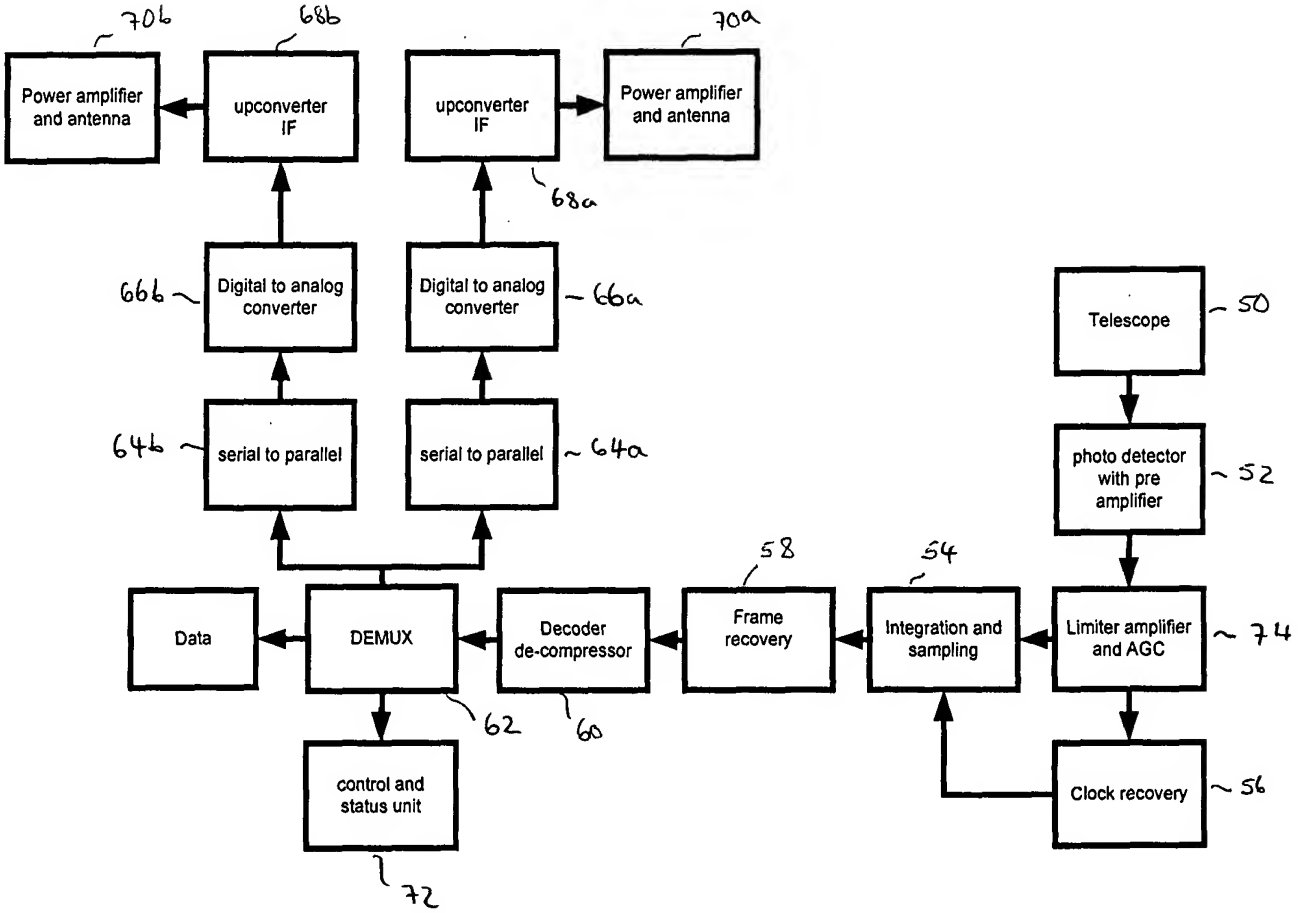
70b
68b
70a
Power amplifier and antenna
upconverter IF
upconverter IF
Power amplifier and antenna
68a
66b
Digital to analog converter
Digital to analog converter
66a
64b
serial to parallel
serial to parallel
64a
Telescope
50
photo detector with pre amplifier
52
58
54
Data
DEMUX
Decoder de-compressor
Frame recovery
Integration and sampling
Limiter amplifier and AGC
74
62
60
control and status unit
Clock recovery
56
72

FIG. 3